BioDETECT

YeastCyte®

Yeast viability analyzer

Monitoring and controlling the viability and total number of brewing yeast is of outmost importance for obtaining optimal fermentations and predictable product quality. *Bio*DETECT provides an automatic system for rapid, on-site enumeration and viability testing of yeast cells and a specific line of reagents. YeastCyte® is an electro optical cell counter using a fluorescent reagent to mark the yeast cells with leaky cell membrane. The cells are illuminated by a laser, detected one by one, enumerated, and finally presented on a PC. YeastCyte® handles all mixing of sample and reagent automatically inside the instrument.

Rapid response - results obtained within one minute
substantial saving in labour compared to microscopical methodes
ideal for high volume, daily routine testing – 60 samples per hour

Simple to operate - turn on the instrument, software loaded on the laptop will guide you through the test procedure

Reliability - more accurate than the methylene blue staining

Instrument based analysis - reducing the risk of subjective human interpretation

AutoStain - reagent and yeast sample is mixed automatically

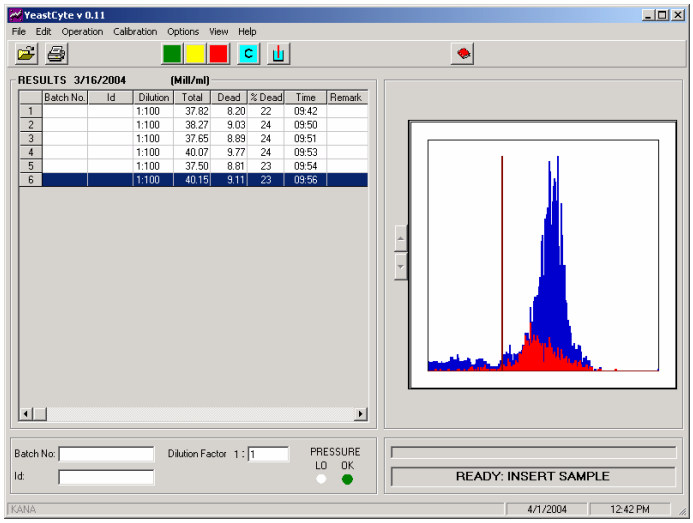
AutoWash - the instrument regularly washes itself to prevent contamination, carry over and clogging from previous samples.

Easy to use and objective results

YeastCyte® is operated from a laptop. No instrument adjustments are required prior to analysis. Results are presented directly as counts per millilitre. Files can be saved in several formats for subsequent analysis in e.g. Excel. The software presents the data in a user friendly Windows format.

Accuracy

Automatic discriminator setting provides optimal, objective counting conditions. Detection limits optimized for yeast analysis.



Auto clean

Auto Wash routines in software, external tanks for sheath fluid and waste reduce the risk of contaminating the instrument.

Technology

Flow cytometry is a technique for rapid counting and analysis of biological cells and other microscopic particles in a liquid by the use of a laser. This technique provides accuracy, speed, versatility, and excellent precision. The light source is a long life diode pumped YAG laser with 532 nano meters wavelength. YeastCyte® detects fluorescence and light scatter for counting cells or particles in the 2 to 20 micron size range. The optical design, where all lenses, filters, light source, detectors and flow cell are mounted in one solid aluminium block, facilitates enhanced stability. For detection of scattered and fluorescent light solid-state photo detectors are used.

Easy calibration

Particles with defined size and fluorescence are used to test and calibrate the instrument to ensure stable operating conditions.

*Bio*DETECT warranty

*Bio*DETECT provides 1 years warranty on workmanship and materials. In addition, customers must enter into B*io*DETECT's extended global warranty by signing a service contract. With a service contract, *Bio*DETECT will immediately provide a replacement unit during repair of any non-functioning YeastCyte®.

Performance Specifications

Measuring Range	20.000 to 2.000.000 cells/ml
Repeatability	CV<5% at 500.000 cells/ml
Carry-over	<2%
Sample volume	5ml

Installation Requirement

Power Supply	110/115/220/240V AC, 50 or 60 Hz. 12V DC
Ambient temperature	15 – 30 °C
Dimensiones (HxWxD)	340 x 230 x 500 mm
Weight	14,2 kg

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